

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
19 February 2004 (19.02.2004)

PCT

(10) International Publication Number
WO 2004/015108 A1

(51) International Patent Classification⁷: C12N 15/12, C07K 14/435, 16/18

Stephen [AU/AU]; 18 Beach Avenue, Elwood, Victoria 3184 (AU).

(21) International Application Number:
PCT/AU2003/001006

(74) Agents: HUGHES, E., John, L. et al.; Davies Collison Cave, 1 Nicholson Street, Melbourne, Victoria 3000 (AU).

(22) International Filing Date: 8 August 2003 (08.08.2003)

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(26) Publication Language: English

Published:

— with international search report

(30) Priority Data:

60/402,055 9 August 2002 (09.08.2002) US
2002951579 22 August 2002 (22.08.2002) AU

(71) Applicant (for all designated States except US): MELBOURNE HEALTH [AU/AU]; 8th Floor, Charles Conibere Building, Royal Melbourne Hospital, Parkville, Victoria 3050 (AU).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(72) Inventors; and

(75) Inventors/Applicants (for US only): JANE, Stephen [AU/AU]; 7 Dudley Parade, Canterbury, Victoria 3126 (AU). WILANOWSKI, Tomasz [AU/AU]; 12/44 Gatehouse Street, Parkville, Victoria 3052 (AU). TING,

WO 2004/015108 A1

(54) Title: MAMMALIAN GRAINYHEAD TRANSCRIPTION FACTORS

(57) Abstract: The present invention provides mammalian homologues of The Drosophila Granyhead (GRH) transcription factor, called MGR and means of identifying such proteins and their genes. Nucleic acid and protein sequences are provided for human and mouse MGR transcription factors. In addition mammalian isoforms of MGR including human MGR p49, human p70, mouse p70, mouse MGR p61, and human and mouse homologues of MGR, brother of mgr (BOM) and sister of mgr (SOM), are disclosed. Antibodies to and methods of using these identified MGR, BOM and SOM transcription factors are also provided. The present invention further provides medical assessment systems including drug evaluation systems comprising genetically modified animals.